

## MEETING MINUTES 2/10/2015

### GENERAL DISCUSSION:

- Frequency Modulated Thermography
  - Ian made a black box for a testing environment
  - Used extensively in the composite materials industry
  - Eliminates distortion in readings from emissivity
  - Need: 2x 1kW tungsten halogen lights, 1x 500W tungsten halogen light, function generator power amplifier—see Shawn Tremble, 2 mirrors, 2x IR filter water tanks (40mm thick—5mm thick glass and 30mm of water) try looking at glass ant farms.
  - Need to look into post- processing procedure
  - Need to explore the capabilities of our camera when it comes to data processing
  - Need to talk to other departments to see if there is another FLIR available that might be a little better.
- Final Design Review
  - Deliverables?
    - ✓ 3-D render of the test bench
    - ✓ Explain methods of NDT with thermography
    - ✓ Rotational stand—Further discussion must be had on the matter to decide whether we build our own, or we have them buy the stand from Novacam.
      - The rotational stand costs are significant if they come from a manufacturer.
  - Design Review times?
    - ✓ Next Tuesday at 11:30am
    - ✓ Does this work for Dr. Beyerlein?
    - ✓ Does this work for our clients?

ACTION ITEMS	
Kaleb	Research post-processing procedures
Ian	Procure the necessary equipment for NDT with thermography
Trevor	Talk with clients about setting up a time for the design review, search in other departments for a new thermal camera
Cris	Research our current camera and try to find any information related to data transformation for post processing procedures